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Amrutha Nagar Main Road
New Bank Colony, Konanakunte
Bangalore - 560 062.
Mobile : +91 97429 59595
Tele/Fax : 080-2632 2565
E-mail : civilexpertsltd@gmail.com
URL : www.civilexperts.in

NABL ACCREDITED AS PER ISO/IEC 17025:2005

Job No.: CECTC-MJ-Ward.No.06- 2014-15 Date: 05.03.2014

TEST REPORT

CLIENT	:	**Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
AGENCY	:	**Sri.M.Jayapal,** Contractor, BBMP, Bangalore.
NAME OF THE WORK	:	Improvements to roads and drains at anjanadri layout in ward No.06, BBMP, Bangalore.
REFERENCE	:	EE/BTP/BBMP/E-TND/126/2013-14 Dated:24.08.2013
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part -5)	130 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	350 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	28.00 %	-

Note:

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⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.

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Job No.: CECTC-MJ-Ward.No.06- 2014-15 Date : 05.03.2015

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

Agency : **Sri.M.Jayapal,** Contractor, Bangalore.

Name of Work : Improvements to roads and drains at anjanadri layout in ward No.06, BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-TND/126/2013-14 Dated:24.08.2013

Date of Testing : 05.03.2014

Material : Sand Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	95	9.50	9.50	90.5	90-100
2.36	120	12.00	21.50	78.5	75-100
1.18	136	13.60	35.10	64.9	55-90
600 Micron	216	21.60	56.70	43.3	35-59
300 Micron	220	22.00	78.70	21.3	8-30
150 Micron	140	14.00	92.70	7.3	0-10

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Job No.: CECTC-MJ-Ward.No.06- 2014-15 Date : 05.03.2015

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

Agency : **Sri.M.Jayapal,** Contractor, Bangalore.

Name of Work : Improvements to roads and drains at anjanadri layout in ward No.06, BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-TND/126/2013-14 Dated:24.08.2013

Date of Testing : 05.03.2014

Material : 40mm Aggregates

Total wt. of aggregates in gms = **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	315	2.10	2.10	97.90	95-100
20	8340	55.60	57.70	42.30	30-70
10	3425	22.83	80.53	19.47	10-35
4.75	2510	16.73	97.27	2.73	0-5

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Job No.: CECTC-MJ-Ward.No.06- 2014-15 Date : 05.03.2015

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

Agency : **Sri.M.Jayapal,** Contractor, Bangalore.

Name of Work : Improvements to roads and drains at anjanadri layout in ward No.06, BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-TND/126/2013-14 Dated:24.08.2013

Date of Testing : 05.03.2014

Material : 20mm Aggregates

Total wt. of aggregates in gms = **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	326	6.5	6.5	93.5	95-100
10	2519	50.4	56.9	43.1	25-55
4.75	1852	37.0	93.9	6.1	0-10

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Job No.: CECTC-MJ-Ward.No.06- 2014-15 Date: 07.03.2014

TEST RESULTS OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

Agency : **Sri.M.Jayapal,** Contractor, Bangalore.

Name of Work : Improvements to roads and drains at anjanadri layout in ward No.06, BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-TND/126/2013-14 Dated:24.08.2013

Sample Identification : 8mm, 10mm, 12mm TMT Fe 500 Bars

Technical Reference : IS 1786:2008, IS 1608:2005, IS 1599:1985 (Reaffirmed 2006)

Date of test : 07.03.2014

S.No	Brand	Nominal size (dia in mm)	Mass per metre (kg/metre)	TENSILE STRENGTH		
				0.20 % proof stress/ yield stress ($N/mm^{2)}$	Tensile strength ($N/mm^{2)}$	Elongation, percent on gauge length
1	Fe 500	8	0.394	542	561	16.0
2	Fe 500	10	0.619	558	574	17.0
3	Fe 500	12	0.886	569	586	18.0

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Job No.: CECTC-MJ-Ward.No.06- 2014-15 Date: 10.03.2014

REPORT

Client	:	**Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Contractor	:	**Sri.M.Jayapal,** Contractor, BBMP, Bangalore.
Name of the Work	:	Improvements to roads and drains at anjanadri layout in ward No.06, BBMP, Bangalore.
Reference	:	EE/BTP/BBMP/E-TND/126/2013-14 Dated:24.08.2013
Type of Mix	:	Water Bound Macadam (Grade-II Metal)
Date of Testing	:	10.03.2014

TABLE - 2.1: SEIVE ANALYSIS:

IS Sieve designation Size,mm	Percentage Passing for Graded Aggregate of Nominal size	Percentage by Weight Passing as per MORTH table 400-7
90mm	100.00	100.00
63mm	96.68	90-100
53mm	71.57	25-75
45mm	13.21	0-15
22.4mm	3.68	0-5

TABLE - 2.2:

Sl. No	Test Conducted	Results	Requirements as per IS 383-1970 (MORTH Table 400-6 Specifications)
1.	Aggregate Impact Value	23.58%	30% Maximum.
2.	Combined Flakiness and Elongation	24.86%	30% Maximum.

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